



Maura Healey, Governor
Kimberley Driscoll, Lieutenant Governor
Gina Fiandaca, Secretary & CEO
Jonathan L. Gulliver, Highway Administrator



September 6, 2023

Proposal No. 608929-123406

ADDENDUM NO. 2

To Prospective Bidders and Others on:

WILMINGTON

**Federal Aid Project No. HIP(BR)-003S(669)X
Bridge Replacement, W-38-003, Butters Row over MBTA**

PROPOSAL TO BE OPENED AND READ: TUESDAY, SEPTEMBER 12, 2023 at 2:00 P.M.

Transmitting changes to the Contract Documents as follows:

<u>RESPONSES TO BIDDERS' QUESTIONS:</u>	Three pages attached.
<u>DOCUMENT 00104:</u>	Revised Pages 1 and 3.
<u>DOCUMENT 00813:</u>	Deleted document in its entirety and inserted new document (4 pages).
<u>DOCUMENT A00801:</u>	Revised Page 220.

Please take note of the above, substitute the revised pages for the originals, delete document as noted, insert new document in proper order, and acknowledge Addendum No. 2 in your Expedite Proposal file before submitting your bid.

Very truly yours,

Eric M. Cardone, P.E.
Construction Contracts Engineer

MB
c: Eamon Kernan, Project Manager

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WILMINGTON
Federal Aid Project No. HIP(BR)-003S(669)X
Bridge Replacement, W-38-003, Butters Row over MBTA
(608929-123406)

Responses to Bidders' Questions

Addendum No. 2, September 6, 2023

McCourt Construction Company, e-mail dated August 30, 2023

Question 12) Under which payment item is the 16" DIA Pipe Sleeve shown on Drawing Sheet no. 85 paid?

Response 12) See the revised Special Provisions, page A00801-220. The sleeves that are directly cast into the concrete wall stems shall be incidental to those concrete pay items within the lump sum items for appropriate retaining walls.

MD&B, email dated Friday, September 1, 2023

Question 13) General Micropile Notes, Note 7 says no casing joints shall be located with 15 feet of the pile cap. Typical micropile drill rigs use 10 foot sections of threaded casing which could offer no casing joints 9 feet of the pile cap, anything longer would come at a premium cost for larger equipment. Please confirm that the 15 feet in Note 7 is required.

Response 13) This will be responded in the future addendum.

Question 14) Micropile Specification Item 945.1, page 185, Qualifications, requires a onsite – full time QC Inspector with NETTCP Concrete Technician certification. This is not common for Drilling Contractors to have on staff as much of this training does not apply to the micropile activities. Would a licensed Professional Engineer (PE) be an acceptable substitution, considering they demonstrate competency in all QC inspection and testing activities required for Micropile Installation?

Response 14) This will be responded in the future addendum.

J.F. White Contracting, email dated Friday, September 1, 2023

Question 15) Section 114.1 Demolition of Superstructure of Bridge No. W-38-003 (2NV), bottom page No. A00801-61 states, *"For the elements listed above which are determined to be treated timber, the removal shall be included under this pay item; however, the disposal of those treated timber superstructure elements shall be paid under Item 184.1."* The Basis of Payment section shown on Page 62 of the same specification states; *"The disposal of treated timber elements described under this special provision adhere to the requirements of the Special Provision for item No. 184.1, but will be paid for under Item 114.1."* Please confirm how the disposal of timber superstructure is to be paid.

Response 15) This will be responded in the future addendum.

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Question 16) Sheet 15 of 48 sheets provides the micro-pile layout for the abutments and wingwalls. The drawing also indicates the permanent and temporary SOE relative to the micropile and footing layout. The drawing indicates that there are thirteen HP 12x84 piles at each abutment footing. Sheet 19 of 48 indicates sixteen piles at each abutment footing. Both drawings show the limit of SOE system to be 60' long. Please confirm the SOE limits and 12x84 pile spacing.

Response 16) This will be responded in the future addendum.

Question 17) Stage 1, Phase C, Task 11, states "Enabling work by the contractor – If relocation of AT&T is required, must give AT&T 9 months notice. Mark out prop bridge footings." If relocation of this utility is required, please confirm the estimated time AT&T needs to perform this work. No estimated duration is included on the PUC form for this scope of work, beyond 1 day of test pits.

Response 17) This will be responded in the future addendum.

MAS Building & Bridge Inc., email dated Tuesday, September 5, 2023

Question 18) Sheet 15 of 48 of the Bridge Plans details 13 EA Perm SOE Piles per Abutment. Sheet 19 of 48 details 16 EA Perm. SOE Piles per Abutment. Please confirm Sheet 19 of 48 is accurate.

Response 18) This will be responded in the future addendum.

Question 19) Please confirm that wing wall copings for both the bridge and retaining walls are to be 5000 $\frac{3}{4}$ 685 HP cement concrete. The special provisions call them out to be 4000 $\frac{3}{4}$ 585 HP concrete.

Response 19) This will be responded in the future addendum.

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Responses to Bidders' Questions

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McCourt Construction, email dated Tuesday, September 5, 2023

- Question 20) Concerning the MBTA Overhead Wire Relocation detail on Drawing Sheet 39, please address the following questions:
- a. What is the specification, size, material type, and or details for the Power Disconnect Switch?
 - b. What is the specification, size, material type, and or details for the Junction Box Case?
 - c. Does the junction box case require a footing or concrete mat? If yes, provide details of this footing or mat.
 - d. How many Power, Signal, Comm, and PTC cables are required to be furnish and installed inside of the conduits for the temporary and permanent conditions, as the drawings and Specification Section 804.777 only list the cable type, but do not list the quantities.

Response 20) This will be responded in the future addendum.

MAS Building & Bridge Inc., email dated Tuesday, September 5, 2023

- Question 21) Spec section 100.99 states monitoring DMPs every (2) days during the installation of the braced sheeting. Is this referring to the permanent SOE that is soldier pile & lagging? If so, this conflicts with the MBTA Directorate stating readings to be taken once during every 8-hour shift. Do daily or every other day readings need to be taken for any of the micropile installations, excavation/backfilling for abutment pile caps behind the permanent SOE? Do special provisions or MBTA Directorate take precedence? How far from the centerline of the tracks are readings to be taken for each of these construction tasks - drilled perm SOE piles, drilled micropiles, excavation, and backfilling?

Response 21) This will be responded in the future addendum.

- Question 22) Sheet 14 of 48 of the bridge plans, note 7 under Construction states work to be done under non-revenue hours for constructing the abutment micropiles and pile caps. Do both of these tasks need to be done at night? If no hoisting is required to FRP the abutment pile caps, do they still need at be constructed at night?

Response 22) This will be responded in the future addendum.

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② Addendum No. 2, September 6, 2023

DOCUMENT 00104

**NOTICE TO CONTRACTORS**

Electronic proposals for the following project will be received through the internet using Bid Express until the date and time stated below and will be posted on www.bidx.com forthwith after the bid submission deadline. No paper copies of bids will be accepted. All Bidders must have a valid vendor code issued by MassDOT in order to bid on projects. Bidders need to apply for a Digital ID at least 14 days prior to a scheduled bid opening date with Bid Express.

TUESDAY, SEPTEMBER 12, 2023 at 2:00 P.M. ****WILMINGTON****Federal Aid Project No. HIP(BR)-003S(669)X****Bridge Replacement, W-38-003, Butters Row over MBTA******Date Subject to Change**PROJECT VALUE = \$13,059,000.00

② Bidders must be pre-qualified by the Department in the BRIDGE - CONSTRUCTION or HIGHWAY – CONSTRUCTION category to bid on the above project. An award will not be made to a Contractor who is not pre-qualified by the Department prior to the opening of Proposals.

All prospective Bidders who intend to bid on this project must obtain “Request Proposal Form (R109)”. The blank “Request Proposal Form (R109)” can be obtained at:
<https://www.mass.gov/prequalification-of-horizontal-construction-firms>.

All prospective Bidders must complete and e-mail an electronic copy of “Request Proposal Form (R109)” to the MassDOT Director of Prequalification for approval:
prequal.r109@dot.state.ma.us.

Proposal documents for official bidders are posted on www.bidx.com. Other interested parties may receive informational Contract Documents containing the Plans and Special Provisions, free of charge.

Bids will be considered, and the contract awarded in accordance with statutes governing such contracts in accordance with Massachusetts General Laws Chapter 30 § 39M.

The Project Bids File Attachments folder for proposals at www.bidx.com shall be used for submitting at the time of bid required information such as the Bid Bond required document, and other documents that may be requested in the proposal.

② Addendum No. 2, September 6, 2023

NOTICE TO CONTRACTORS (Continued)**PRICE ADJUSTMENTS**

②

This Contract contains price adjustments for hot mix asphalt and Portland cement mixtures, diesel fuel, and gasoline. For reference the base prices are as follows: liquid asphalt \$625.00 per ton, Portland cement \$181.15 per ton, diesel fuel \$3.087 per gallon, and gasoline \$2.975 per gallon, and Steel Base Price Index 446.4 MassDOT posts the **Price Adjustments** on their Highway Division's website at

<https://www.mass.gov/massdot-contract-price-adjustments>

This Contract contains Price Adjustments for steel. See Document 00813 - PRICE ADJUSTMENT FOR STRUCTURAL STEEL AND REINFORCING STEEL for their application and base prices.

MassDOT projects are subject to the rules and regulations of the Architectural Access Board (521 CMR 1.00 et seq.)

Prospective bidders and interested parties can access this information and more via the internet at WWW.COMMBUYS.COM.

BY: Gina Fiandaca, Secretary and CEO, MassDOT
Jonathan L. Gulliver, Administrator, MassDOT Highway Division
SATURDAY, JULY 29, 2023

DOCUMENT 00813

SPECIAL PROVISIONS

PRICE ADJUSTMENTS FOR STRUCTURAL STEEL AND REINFORCING STEEL

August 17, 2023

This special provision applies to all projects containing the use of structural steel and/or reinforcing steel as specified elsewhere in the Contract work. It applies to all structural steel and all reinforcing steel, as defined below, on the project. Compliance with this provision is mandatory, i.e., there are no “opt-in” or “opt-out” clauses. Price adjustments will be handled as described below and shall only apply to unfabricated reinforcing steel bars and unfabricated structural steel material, consisting of rolled shapes, plate steel, sheet piling, pipe piles, steel castings and steel forgings.

Price adjustments will be variances between Base Prices and Period Prices. Base Prices and Period Prices are defined below.

Price adjustments will only be made if the variances between Base Prices and Period Prices are 5% or more. A variance can result in the Period Price being either higher or lower than the Base Price. Once the 5% threshold has been achieved, the adjustment will apply to the full variance between the Base Price and the Period Price.

Price adjustments will be calculated by multiplying the number of pounds of unfabricated structural steel material or unfabricated reinforcing steel bars on a project by the index factor calculated as shown below under Example of a Period Price Calculation.

Price adjustments will not include guardrail panels or the costs of shop drawing preparation, handling, fabrication, coatings, transportation, storage, installation, profit, overhead, fuel costs, fuel surcharges, or other such charges not related to the cost of the unfabricated structural steel and unfabricated reinforcing steel.

The weight of steel subject to a price adjustment shall not exceed the final shipping weight of the fabricated part by more than 10%.

Base Prices and Period Prices are defined as follows:

Base Prices of unfabricated structural steel and unfabricated reinforcing steel on a project are fixed prices determined by the Department and found in the table below. While it is the intention of the Department to make this table comprehensive, some of a project’s unfabricated structural steel and/or unfabricated reinforcing steel may be inadvertently omitted. Should this occur, the Contractor shall bring the omission to the Department’s attention so that a contract alteration may be processed that adds the missing steel to the table and its price adjustments to the Contract.

The Base Price Date is the month and year of the most recent finalized period price index at the time that MassDOT opened bids for the project. The Base Price Index for this contract is the Steel PPI listed in the Notice to Contractors.

Period Prices of unfabricated structural steel and unfabricated reinforcing steel on a project are variable prices that have been calculated using the Period Price Date and an index of steel prices to adjust the Base Price.

The Period Price Date is the date the steel was delivered to the fabricator as evidenced by an official bill of lading submitted to the Department containing a description of the shipped materials, weights of the shipped materials and the date of shipment. This date is used to select the Period Price Index.

The index used for the calculation of Period Prices is the U.S. Department of Labor Bureau of Labor Statistics Producer Price Index (PPI) Series ID WPU101702 (Not Seasonally Adjusted, Group: Metals and Metal Products, Item: Semi-finished Steel Mill Products.) As this index is subject to revision for a period of up to four (4) months after its original publication, no price adjustments will be made until the index for the period is finalized, i.e., the index is no longer suffixed with a “(P)”.

Period Prices are determined as follows:

Period Price = Base Price X Index Factor

Index Factor = Period Price Index / Base Price Index

Example of a Period Price Calculation:

Calculate the Period Price for December 2009 using a Base Price from March 2009 of \$0.82/Pound for 1,000 Pounds of ASTM A709 (AASHTO M270) Grade A36 Structural Steel Plate.

The Period Price Date is December 2009. From the PPI website*, the Period Price Index = 218.0.

The Base Price Date is March 2009. From the PPI website*, the Base Price Index = 229.4.

Index Factor = Period Price Index / Base Price Index = $218.0 / 229.4 = 0.950$

Period Price = Base Price X Index Factor = $\$0.82/\text{Pound} \times 0.950 = \$0.78/\text{Pound}$

Since $\$0.82 - \$0.78 = \$0.04$ is less than 5% of \$0.82, no price adjustment is required.

If the \$0.04 difference shown above was greater than 5% of the Base Price, then the price adjustment would be 1,000 Pounds X \$0.04/Pound = \$40.00. Since the Period Price of \$0.78/Pound is less than the Base Price of \$0.82/Pound, indicating a drop in the price of steel between the bid and the delivery of material, a credit of \$40.00 would be owed to MassDOT. When the Period Price is higher than the Base Price, the price adjustment is owed to the Contractor.

* To access the PPI website and obtain a Base Price Index or a Period Price Index, go to <http://data.bls.gov/cgi-bin/srgate>

End of example.

The Contractor will be paid for unfabricated structural steel and unfabricated reinforcing steel under the respective contract pay items for all components constructed of either structural steel or reinforced Portland cement concrete under their respective Contract Pay Items.

Price adjustments, as herein provided for, will be paid separately as follows:

Structural Steel

Pay Item Number 999.449 for positive (+) pay adjustments (payments to the Contractor)

Pay Item Number 999.457 for negative (-) pay adjustments (credits to MassDOT Highway Division)

Reinforcing Steel

Pay Item Number 999.466 for positive (+) pay adjustments (payments to the Contractor)

Pay Item Number 999.467 for negative (-) pay adjustments (credits to MassDOT Highway Division)

No price adjustment will be made for price changes after the Contract Completion Date, unless the MassDOT Highway Division has approved an extension of Contract Time for the Contract.

TABLE

Steel Type		Price per Pound
1	ASTM A615/A615M Grade 60 (AASHTO M31 Grade 60 or 420) Reinforcing Steel	\$0.69
2	ASTM A27 (AASHTO M103) Steel Castings, H-Pile Points & Pipe Pile Shoes (See Note (8) below.)	\$0.95
3	ASTM A668 / A668M (AASHTO M102) Steel Forgings	\$0.95
4	ASTM A108 (AASHTO M169) Steel Forgings for Shear Studs	\$0.99
5	ASTM A709/A709M Grade 36 / AASHTO M270M/M270 Grade 36 or 250 Structural Steel Plate	\$1.05
6	ASTM A709/A709M Grade 36 / AASHTO M270M/M270 Grade 36 or 250 Structural Steel Shapes	\$0.98
7	ASTM A709/A709M Grade 50 / AASHTO M270M/M270 Grade 50 or 345 Structural Steel Plate	\$1.05
8	ASTM A709/A709M Grade 50 / AASHTO M270M/M270 Grade 50 or 345 Structural Steel Shapes	\$0.98
9	ASTM A709/A709M Grade 50WT / AASHTO M270M/M270 Grade 50WT or 345WT Structural Steel Plate	\$1.08
10	ASTM A709/A709M Grade 50WT / AASHTO M270M/M270 Grade 50WT or 345WT Structural Steel Shapes	\$0.99
11	ASTM A709/A709M Grade 50W / AASHTO M270M/M270 Grade 50W 345W Structural Steel Plate	\$1.08
12	ASTM A709/A709M Grade 50W / AASHTO M270M/M270 Grade 50W or 345W Structural Steel Shapes	\$0.99
13	ASTM A709/A709M Grade HPS 50W / AASHTO M270M/M270 Grade HPS 50W or 345W Structural Steel Plate	\$1.14
14	ASTM A709/A709M Grade HPS 70W / AASHTO M270M/M270 Grade HPS 70W or 485W Structural Steel Plate	\$1.21
15	ASTM A514/A514M-05 Grade HPS 100W / AASHTO M270M/M270 Grade HPS 100W or 690W Structural Steel Plate	\$1.86
16	ASTM A992/A992M Grade 50S / AASHTO M270M/M270 Grade 50S or 345S Structural Steel Plate	\$1.08
17	ASTM A992/A992M Grade 50S / AASHTO M270M/M270 Grade 50S or 345S Structural Steel Shapes	\$0.99
18	ASTM A276 Type 316 Stainless Steel	\$5.55
19	ASTM A240 Type 316 Stainless Steel	\$5.55
20	ASTM A148 Grade 80/50 Steel Castings (See Note (8) below.)	\$1.92
21	ASTM A53 Grade B Structural Steel Pipe	\$1.22
22	ASTM A500 Grades A, B, 36 & 50 Structural Steel Pipe	\$1.22
23	ASTM A252, Grades 240 (36 KSI) & 414 (60 KSI) Pipe Pile	\$0.97
24	ASTM 252, Grade 2 Permanent Steel Casing	\$0.97
25	ASTM A36 (AASHTO M183) for H-piles, steel supports and sign supports	\$1.04
26	ASTM A328 / A328M, Grade 50 (AASHTO M202) Steel Sheetpiling	\$1.83
27	ASTM A572 / A572M, Grade 50 Sheetpiling	\$1.83
28	ASTM A36/36M, Grade 50	\$1.05
29	ASTM A570, Grade 50	\$1.04
30	ASTM A572 (AASHTO M223), Grade 50 H-Piles	\$1.05
31	ASTM A1085 Grade A (50 KSI) Steel Hollow Structural Sections (HSS), heat-treated per ASTM A1085 Supplement S1	\$1.22
32	AREA 140 LB Rail and Track Accessories	\$0.63

NOTE: Steel Castings are generally used only on moveable bridges. Cast iron frames, grates and pipe are not “steel” castings and will not be considered for price adjustments.

END OF DOCUMENT

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② Addendum No. 2, September 6, 2023

<u>ITEM 996.01</u>	<u>WALL STRUCTURE, WALL NO. 1 - SOUTHWEST RETAINING WALL</u>	<u>LUMP SUM</u>
<u>ITEM 996.02</u>	<u>WALL STRUCTURE, WALL NO. 2 - SOUTHEAST RETAINING WALL</u>	<u>LUMP SUM</u>
<u>ITEM 996.03</u>	<u>WALL STRUCTURE, WALL NO. 3 NORTHWEST RETAINING WALL</u>	<u>LUMP SUM</u>
<u>ITEM 996.04</u>	<u>WALL STRUCTURE, WALL NO. 4 - NORTHEAST RETAINING WALL</u>	<u>LUMP SUM</u>

The work to be done under this Item shall conform to the relevant provisions of Subsection 995 of the Standard Specifications and the specific requirements stipulated below for the component parts of this Item. For those component parts where no specific requirement is stipulated, the Standard Specifications shall apply except for payment.

Work under this Item shall include all materials, equipment and labor needed to construct the following for the Southwest, Southeast, Northwest and Northeast retaining wall structures:

- Cast-in-place concrete cantilever retaining walls, and all the steel reinforcement for these items;
- S3-TL4 bridge railing;
- Damp-proofing;
- All items included hereinafter under Basis for Partial Payments.

The proposed drilled micropile foundations for these walls shall be measured and paid separately under Item No. 945.1

The work does not include any items listed separately in the proposal. Payment for materials shown on the Plans as being part of this wall structure or which may be incidental to its construction and are not specifically included for payment under another Item shall be considered incidental to the work performed under these items, including all utility sleeves cast into the walls and shall be included in the unit price of the component of which they are part.

②

4000 PSI, 1.5 INCH, 565 CEMENT CONCRETE

The work to be done under these headings shall conform to the relevant provisions of Subsection 901, supplemented and amended as follows:

All concrete shall be placed in the dry.

The various classes of concrete shall be used as specified on the Plans, and generally described as follows:

4000 PSI, 1.5 INCH, 565 CEMENT CONCRETE shall be used to construct the retaining wall footings and stems.